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among human **bidders** in a variety of task and **resource allocation** problems. More recently, Internet auction Combinatorial auctions, that is, auctions where **bidders** can **bid** on combinations of items, tend to lead auctions, that is, auctions where **bidders** can **bid** on combinations of items, tend to lead to more wireless.fcc.gov/auctions/conferences/combin2001/papers/sandholm6.pdf

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software agents in a variety of task and **resource allocation** problems. 1 This paper focuses on Combinatorial auctions, i.e. auctions where **bidders** can **bid** on combinations of items, tend to lead auctions, i.e. auctions where **bidders** can **bid** on combinations of items, tend to lead to more www.cs.wustl.edu/cs/techreports/1999/wucs-99-01.tr.ps.Z

[Bidding and Allocation in Combinatorial Auctions - Nisan \(2000\)](#) (Correct) (88 citations)
from auction theory for computational **resource allocation** [28, 9, 19]in computerized Institute
Bidding and Allocation in Combinatorial Auctions Noam
items is performed, it is often desirable to allow **bids** on combinations of items, as opposed to only on www.cs.berkeley.edu/~christos/games/readings/nisanauctions.ps

[The Michigan Internet AuctionBot: A Configurable Auction.. - Wurman, Wellman, Walsh \(1998\)](#) (Correct) (77 citations)
at the core of systems for market- based **resource allocation** [2, 13, 16, 17, 18, 20]To sup- port our Technologies (waw.openste.com)8www. bidf ind. corn 9auct ion. ee cs.umich. edu
resource allocation and prices on the basis of **bids** from the market participants. Notice that the www.cs.rutgers.edu/~ricardob/courses/internet/papers/auctionbot.ps.gz

[Auction Protocols for Decentralized Scheduling - Wellman, Walsh, Wurman.. \(1998\)](#) (Correct) (65 citations)
several have proposed that distributed **resource allocation** problems be solved via market mechanisms mechanisms use prices derived through distributed **bidding** protocols to determine schedules. We the behavior of an ascending auction mechanism and **bidding** protocol. To remedy the potential nonexistence www-personal.umich.edu/~jmm/papers/gebfinal.pdf

[Managing Energy and Server Resources in Hosting Centers - Chase, Anderson, Thakar, .. \(2001\)](#) (Correct) (62 citations)
effects on service performance. A greedy **resource allocation** algorithm adjusts resource prices to managing shared server resources, in which services "**bid**" for resources as a function of delivered is based on an economic model in which customers "**bid**" for resources as a function of service volume and www.cs.duke.edu/~vahdat/ps/muse-sosp01.pdf

[Iterative Combinatorial Auctions: Theory and Practice - Parkes, Ungar \(2000\)](#) (Correct) (50 citations)
for optimal auction-based solutions to **resource allocation** problems with agents that have Combinatorial auctions, which allow agents to **bid** directly for bundles of resources, are necessary auction that is optimal for a reasonable agent **bidding** strategy, in this case myopic best-response www.eecs.harvard.edu/econcs/pubs/ibundle00.pdf

[Challenger: A Multi-agent System for Distributed Resource.. - Chavez, Moukas, Maes \(1997\)](#) (Correct) (43 citations)
A Multi-agent System for Distributed **Resource Allocation** Anthony Chavez, Alexandros Moukas and The base agent behavior is based on a market /**bidding** metaphor, which is summarized as follows: ffl local Challenger agent broadcasts a "request for **bids**" to all the agents in the network (including ecommerce.media.mit.edu/papers/chall.ps

[Challenger : A Multi-agent System for Distributed Resource.. - Chavez, Moukas, Maes \(1997\)](#) (Correct) (43 citations)
A Multi-agent System for Distributed **Resource Allocation** Anthony Chavez, Alexandros Moukas and The base agent behavior is based on a market/**bidding** metaphor, which is summarized as follows: ffl local Challenger agent broadcasts a "request for **bids**" to all the agents in the network (including lcs.www.media.mit.edu/~moux/papers/chall.ps.gz

[Sequential Auctions for the Allocation of Resources.. - Boutilier.. \(1999\)](#) (Correct) (38 citations)
being studied as an appropriate means for **resource allocation** in distributed and multiagent decision

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relies on combinatorial auctions where agents **bid** for resource bundles, or simultaneous auctions for

We develop a different model, where agents **bid** for required resources sequentially. This model

www.cs.ubc.ca/spider/cebly/Papers/_download_/auctions.ps

Congestion-Dependent Pricing of Network Services - Paschalidis, Tsitsiklis (1998) (Correct) (36 citations)

shortcomings, resulting in more efficient **resource allocation**, by charging users on the basis of the

proposed a "smart market" where individual packets **bid** for transport while the network only serves

while the network only serves packets with **bids** above a certain cutoff amount, depending on the

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[Competitive Analysis of Incentive Compatible On-Line Auctions - Lavi, Nisan \(2000\) \(Correct\) \(29 citations\)](#)
 commerce [2, 14]computational and network **resource allocation** [19, 20, 13, 11, 18, 24, 7, 26]trade
 studies auctions in a setting where the different **bidders** arrive at different times and the auction
 mechanism is required to make decisions about each **bid** as it is received. Such settings occur in
www.cs.huji.ac.il/~tron/papers/online-auctions.ps.gz

[iBundle: An Efficient Ascending Price Bundle Auction - Parkes \(1999\) \(Correct\) \(27 citations\)](#)
 generates efficient allocations for hard **resource allocation** problems. Furthermore, we show that Bundle
 allocations with agents that follow a best-response **bidding** strategy. The auction prices bundles directly
 and allows agents to place additive or exclusive-or **bids** over collections of bundles. Empirical results
www.eecs.harvard.edu/econcs/pubs/ibundle.pdf

[A New and Improved Design for Multi-Object Iterative.. - DeMartini, Kwasnica.. \(1999\) \(Correct\) \(27 citations\)](#)
 we are able to create a new design, the **Resource Allocation Design #RAD#** auction process, which
 the RAD auction achieves higher efficiencies, lower **bidder** losses, and faster times to completion without
 to completion without increasing the complexity of a **bidder's** problem. 1 Introduction What is the best
www.hss.caltech.edu/~jledyard/rad.pdf

[Approaches to Winner Determination in Combinatorial Auctions - Sandholm \(Correct\) \(22 citations\)](#)
 software agents in a variety of task and **resource allocation** problems. 1 Auctions can be used among
 Combinatorial auctions, i.e. auctions where **bidders** can **bid** on combinations of items, tend to lead
 auctions, i.e. auctions where **bidders** can **bid** on combinations of items, tend to lead to more
128.252.165.44/~sandholm/windetreview.ps

[Solving Combinatorial Auctions using Stochastic Local Search - Hoos, Boutilier \(2000\) \(Correct\) \(21 citations\)](#)
 show promise as a useful tool for tackling **resource allocation** in AI. Unfortunately, winner
 have difficulty with problems involving goods and **bids** beyond the hundreds. We apply a new stochastic
 language for naturally expressing combinatorial **bids** in which a single logical **bid** corresponds to a
www.cs.ubc.ca/spider/hoos/Pub/aaai00-ca.ps.gz

[Some Economics of Market-Based Distributed Scheduling - Walsh, Wellman, Wurman.. \(1998\) \(Correct\) \(20 citations\)](#)
 model distributed scheduling as a discrete **resource allocation** problem, and demonstrate the applicability
 Agents make their own decisions about how to **bid** based on the prices and their own relative
 full Communication is limited to the exchange of **bids** and prices between agents and the market mech-
www-personal.engin.umich.edu/~wew/Papers/icdcs98.ps.Z

[A Model For Cooperative Transportation Scheduling - Fischer, Müller, Pischel.. \(1995\) \(Correct\) \(20 citations\)](#)
 to obtain good initial solutions for complex **resource allocation** problems. By introducing global
 Allocation in Multiagent Systems INTRODUCTION Bidding protocols have been advocated as a valuable
 can also be another SCA) she has to compute a **bid** for executing the order. In order to determine the
[ftp.dfki.uni-sb.de/pub/MAGSY/Papers/ICMAS95.ps.gz](ftp://dfki.uni-sb.de/pub/MAGSY/Papers/ICMAS95.ps.gz)

[Power Load Management as a Computational Market - Ygge, Akkermans \(1996\) \(Correct\) \(17 citations\)](#)
 markets have been suggested as a solution to **resource allocation**, scheduling, and optimization problems
 of the utility function) which serves as the **bidding** price, decreases with increased resource (i.e.
 in that it has a lower and an upper bound. 2.3 Bids and Auction Schemes Reallocations in
www.soc.hk-r.se/research/1996/plmcm.ps

[The 2001 Trading Agent Competition - Michael Wellman University \(2000\) \(Correct\) \(16 citations\)](#)
 in **bidding** strategy, market prediction, and **resource allocation**. Entrants in 2001 demonstrated
 competition presents agents with difficult issues in **bidding** strategy, market prediction, and resource
 auctions. In other words, the winning **bidders** are those who place the top sixteen unit
ai.eecs.umich.edu/people/wellman/pubs/aaai02ext.pdf

[Rationality and Self-Interest in Peer to Peer Networks - Shneidman, Parkes \(2003\) \(Correct\) \(16 citations\)](#)
 peer search, routing, distributed auctions, **resource allocation**, etc. that allow nodes to behave

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propagated. You then sit back, expecting many **bids**, and are surprised when you only receive three **bids**, and are surprised when you only receive three **bids** -one from each neighbor. What happened? Your iptps03.cs.berkeley.edu/final-papers/rationality.ps

The Progressive Second Price Auction Mechanism for Network.. - Lazar, Semret (1998) (Correct) (16 citations)

December 31, 1997 Keywords: **resource allocation**, auctions, game theory, mechanism design, that for practical reasons, we reduce the message **#bid#** space to two dimensions **#price** and **quantity#** in the directrevelations mechanisms. Player i's **bid** is $s_i = q_i p_i$ **#2S** $i = 0Q# 0 1#$ comet.columbia.edu/~aurel/isdg.pdf

Preventing Strategic Manipulation in Iterative Auctions: Proxy ... - Parkes, Ungar (2000) (Correct) (13 citations)

scheduling, etc. can be formulated as **resource allocation** problems, with a set of discrete items to have many computational advantages over sealed-bid auctions, but can present new possibilities for optimal allocations with myopic best-response **bidding** strategies more robust to manipulation. First, www.eecs.harvard.edu/econcs/pubs/iGVA00.pdf

A Computational Economy for Grid Computing and its.. - Abramson, Buyya, Giddy (2002) (Correct) (13 citations)

a computational economy framework for **resource allocation** and regulation of supply and demand for [12] Auction Model Spawn [18] Popcorn [19] **Bid**-based Proportional Resource Sharing Rexec & www.csse.monash.edu.au/~rajkumar/ecogrid/./papers/nimrodg-fgcs.pdf

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1 Adaptive task resources allocation in multi-agent systems

S. Shaheen Fatima, Michael Wooldridge

May 2001

Proceedings of the fifth international conference on Autonomous ag

Full text available: pdf(239.40 KB)

Additional Information: full citation, abstract, reference

In this paper, we present an adaptive organizational policy for multi-agent sy allows a collection of multi-agent organizations to dynamically allocate tasks to efficiently process an incoming stream of task requests. \acro{trace} is int tasks have time constraints, and environments that are subject to load variat elements: the tas ...

2 Session 4B: multiagent resource allocation: Effort profiles in multi-agent re:

H. Van Dyke Parunak, Sven Brueckner, John Sauter, Robert Savit

July 2002

Proceedings of the first international joint conference on Autonomous a

Full text available: pdf(336.15 KB)

Additional Information: full citation, abstract, refer

Multi-agent systems are particularly appropriate for resource allocation, but c requires understanding their dynamics. Concepts from statistical physics, suc problems such as constraint satisfaction, such transitions exhibit an easy-hard overconstrained problems are easier to solve than those near the transition. T in optimization probl ...

Keywords: complexity, effort profile, negotiation, phase change, phase transit

3 Game theory (I): Resource allocation games with changing resource capacities

Aram Galstyan, Shashikiran Kolar, Kristina Lerman

July 2003 Proceedings of the second international joint conference on Autonomous agents and multi-agent systems

Full text available:  pdf(474.31 KB)

Additional Information: full citation, abstract, references

In this paper we study a class of resource allocation games which are inspired by a system of competitive agents that have to choose between several resource capacities. The agents using a particular resource are rewarded if their number is below a certain threshold and punished otherwise. Agents use a set of strategies to decide what resource to use and a reinforcement learning scheme to update ...

Keywords: dynamical systems, game, reinforcement learning

4 A game-theoretic formulation of multi-agent resource allocation

Jonathan Bredin, Rajiv T. Maheswaran, Çagri Imer, Tamer Başar, David Kotz, David Borra

June 2000 Proceedings of the fourth international conference on Autonomous agents and multi-agent systems


Full text available:  pdf(735.87 KB)

Additional Information: full citation, references, citations, index terms

5 Role and resource allocation in MAS: Cooperative negotiation in a multi-agent system of a mobile cellular network

John Bigham, Lin Du




July 2003 Proceedings of the second international joint conference on Autonomous agents and multi-agent systems

Full text available:  pdf(1.27 MB)

Additional Information: full citation, abstract, references

A cooperative negotiation approach for the real-time control of cellular network of the whole cellular network is improved by contracting and shaping the antenna "spots" and expanding adjacent cell coverage to fill in the coverage loss. The proposed cooperative negotiation between base stations leads to a near global optimal solution in the context of the whole network ...

Keywords: cooperative negotiation, load balancing, multi-agent systems, real-time control

- 6 Role and resource allocation in MAS: Cooperative negotiation for soft real-time**
Roger Mailler, Victor Lesser, Bryan Horling
July 2003 Proceedings of the second international joint conference on Autonomous and Adaptive Systems
Full text available:  pdf(192.05 KB) Additional Information: full citation, abstract, refereed
In this paper we present a cooperative negotiation protocol that solves a distributed resource allocation problem conforming to soft real-time constraints in a dynamic environment. Two central components allow it to operate in constantly changing conditions. First, we frame the allocation problem as a Partial Constraint Satisfaction Problem (PCSP), and use relaxation (constraint violation) free ...
Keywords: cooperative negotiation, distributed problem solving, resource allocation
- 7 Session 1B: bidding and bargaining agents I: A multi-agent queuing model for a non-cooperative game**
Pinata Winoto, Tiffany Ya Tang
July 2002 Proceedings of the first international joint conference on Autonomous and Adaptive Systems
Full text available:  pdf(155.49 KB) Additional Information: full citation, abstract, refereed
In this paper, we investigate a multi-agent non-cooperative game for resource allocation. Specifically, agents with common goals to maximize individual utility bid or bribe for quicker service provided by the server. Agents choose from on Nash equilibrium strategy and linear regression strategy, for their desired service, it re-evaluates ...
Keywords: multi-agent system, queuing model, resource allocation, social simulation
- 8 Role and resource allocation in MAS: Multiagent planning for agents with irregular resource capacities**
Haksun Li, H. Durfee, Kang G. Shin
July 2003 Proceedings of the second international joint conference on Autonomous and Adaptive Systems
Full text available:  pdf(371.56 KB) Additional Information: full citation, abstract, refereed
We study how agents can cooperate to revise their plans as they attempt to use local resource capacities. An agent in a multiagent environment should in principle consider all events as well as all events that could conceivably be caused by other agents. However, such omniscient plans are usually overwhelming, however. Thus, an agent must decide which to execute and which to ignore in the multiagent environment ...
Keywords: action selection, coordination infrastructures, coordination of multiagent systems

9 Market-driven service allocation in a QoS-capable environment

Spyros Lalis, Christos Nikalaou, Dimitris Papadakis, Manolis Marazakis

October 1998 Proceedings of the first international conference on Information and

Full text available:  pdf(955.45 KB)

Additional Information: full citation, references, index to

Keywords: QoS, contract bundling, multiple resources, resource management

10 MA-WATM: a new approach towards an adaptive wireless ATM network

Khaldoun Al agha, Houda Labiod

May 1999

Mobile Networks and Applications, Volume 4 Issue 2

Full text available:  pdf(176.03 KB)

Additional Information: full citation, abstract, refer

In a cellular multimedia network like wireless ATM (WATM), self control seem the application of DAI (distributed artificial intelligence) techniques in order to random non-uniform traffic conditions. Attempting to achieve a high network air interface BER (bit error rate), we propose to apply intelligent agent feature systems. In fact ...

11 Session 2D: group and organizational dynamics: Multi-agent dependence

Jaime Simão Sichman, Rosaria Conte

July 2002 Proceedings of the first international joint conference on Autonomous a

Full text available:  pdf(258.08 KB)

Additional Information: full citation, abstract, refere

In this paper, we present an abstract structure called dependence graph, an e network, as proposed in [16]. While this latter can be applied to express a se this new structure can be applied to the multi-agent case. It can be used, the structures, such as groups and collectives, and may form a knowledge base for and organisational or other ...

Keywords: emergent organization, formalisms for agents and MAS, group dynamics, self-organizing systems, teams

12 The POPCORN market—an online market for computational resources





Ori Regev, Noam Nisan


October 1998 Proceedings of the first international conference on Information and

Full text available:  pdf(1.12 MB)


Additional Information: full citation, references, citations, index


Keywords: Internet, Java, global computation, markets, resource allocation

- 13 Coordination in MAS: A key-based coordination algorithm for dynamic read**
Tom Wagner, Valerie Guralnik, John Phelps
July 2003 Proceedings of the second international joint conference on Autonomous agents and multi-agent systems
Full text available:  pdf(1.47 MB) Additional Information: full citation, abstract, reference
This paper describes an agent application for the coordination of air-craft repair in a dynamic setting. The paper also presents a new algorithm for dynamic distributed coordination that compares its performance to an optimal centralized service team scheduler.
Keywords: TAEMS, coordination, dynamic, intelligent agents, multi-agent system
- 14 Market-based resource control for mobile agents**
Jonathan Bredin, David Kotz, Daniela Rus
May 1998 Proceedings of the second international conference on Autonomous agents and multi-agent systems
Full text available:  pdf(1.11 MB) Additional Information: full citation, references, citations, index terms
- 15 Session 11C: decision making: Task selection problem under uncertainty**
Hosam Hanna, Abdel-Ilah Mouaddib
July 2002 Proceedings of the first international joint conference on Autonomous agents and multi-agent systems
Full text available:  pdf(158.57 KB) Additional Information: full citation, abstract, reference
In this paper, we address the problem of decision-making under uncertainty in an environment where an agent has to select tasks to execute in a way which is the new challenging applications such as planetary rovers, e-commerce, etc. where agents are with limited resources and have to distribute and execute a model proposed in this paper, we ...
Keywords: Markov decision process, decision under uncertainty, distributed agents
- 16 Connection establishment protocol based on mutual selection by users and network providers**
Nagao Ogino
October 1998 Proceedings of the first international conference on Information and Communications Security
Full text available:  pdf(811.04 KB) Additional Information: full citation, reference
Keywords: connection establishment protocol, distributed resource allocation, based network control, mutual selection by users and network providers

- 17 A market-based resource management and QoS support framework for dis**
Wonjun Lee, Jaideep Srivastava
November 2000 Proceedings of the ninth international conference on Information a
Full text available:  pdf(352.33 KB) Additional Information: full citation, references, inde


Keywords: distributed systems, economic framework, multimedia, quality of s

- 18 Challenger: a multi-agent system for distributed resource allocation**
Anthony Chavez, Alexandros Moukas, Pattie Maes
February 1997 Proceedings of the first international conference on Autonomous ag
Full text available:  pdf(876.33 KB) Additional Information: full citation, references, citings, index terms

- 19 Scalability and information agents**
Ralph Deters
September 2001 ACM SIGAPP Applied Computing Review, Volume 9 Issue
Full text available:  pdf(691.59 KB) Additional Information: full citation, abstract, r

Having fast and dependable access to the most relevant information available competitive information-oriented society. Ensuring transparent and dependab heterogeneous, ill-structured and often distributed data and information sourc different facets. Over time a large variety of very different approaches have b competing approaches, information agents seem to be particularl ...

Keywords: deployment, information agents, scalability

- 20 Posters: How to calm hyperactive agents**
H. Van Dyke Parunak, Sven A. Brueckner, Robert Matthews, John Sauter
July 2003 Proceedings of the second international joint conference on Autonomou
Full text available:  pdf(109.99 KB) Additional Information: full citation, abstract, references

System performance in multi-agent resource allocation systems can often *imp* activity. Agents need a way to modulate their individual behavior in light of th centralized control. We illustrate the problem of hyperactive agents in two do simple, decentralized scheme, inspired by insect pheromones, enables individ system operates, and sugg ...

Keywords: adaptation, complexity, digital pheromones, dynamics, machine le